NC/QC/PD/MW-01/2018-19/YP2-C2

Date: 04-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**256 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.03 %**	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	**2.17 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.92 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2018-19/YP2-FA1 Date: 04-04-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	99.05	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.60	60-95	75-100	85-100	
01.18	70.20	30-70	55-90	75-100	
600. mic	54.95	15.34	35-59	60-79	
300.mic	22.70	5-20	8-30	12-40	
150.mic	7.40	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	16.10 %	-----
2	Silt Content	----	0.68 %	Not more than 8%
3	Specific Gravity	----	2.60	-------

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2018-19/YP2-CA1

Date: 04-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.55	85-100	90 - 100
10 mm	41.80	0 - 20	25 - 55
4.75 mm	6.45	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.70 %	Not to exceed 25 %
2.	Crushing value	27.15 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

K...R
KIRAN. ...
M.E, (Civil-Engg.,

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/PD/MW-01/2018-19/YP2-S1

Date: 04-04-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 12, 16 & 20 mm **TMT Steel.**
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 08 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.392**	0.363	**0.894**	0.834
03	Proof stress/Yield stress, fy , **N/mm²**	**551.0**	500.0	**558.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.30**	12.00	**19.90**	12.00
06	Ultimate Tensile Strength **N/mm²**	**628.0**	545.0	**636.0**	545.0

K. R
KIRAN. R
M.E, (Civil-Engg,

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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Date: 04-04-2018

TABLE – 1

SL No	Details	For 16 mm		For 20 mm	
		Test Results	Min Req as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**16.0 mm**	16.0 mm	**20.0mm**	20.0mm
02	Observed Wt/m Length **Kg/m**	**1.595**	1.483	**2.471**	2.366
03	Proof stress/Yield stress, fy , **N/mm²**	**569.0**	500.0	**562.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.30**	12.00	**20.40**	12.00
06	Ultimate Tensile Strength **N/mm²**	**659.0**	545.0	**644.0**	545.0

KIRAN. R
M.E, (Civil-Engg.)

For Newzen Consultants Bangalore

Proprietor

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2018-19/YP2-CB2

Date: 19-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-04-18	19-04-18	07	22500	440	19.56	19.48
	002	"	"	"	"	430	19.11	
	003	"	"	"	"	445	19.78	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231,

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NC/QC/PD/MW-01/2018-19/YP2-CB1

Date: 17-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-04-18	17-04-18	07	22500	405	18.00	18.44
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	415	18.44	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231,

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2018-19/YP2-CB1a **Date: 08-05-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-04-18	08-05-18	28	22500	615	27.33	**27.26**
	002	"	"	"	"	605	26.89	
	003	"	"	"	"	620	27.56	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2018-19/YP2-CB2a

Date: 10-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-04-18	10-05-18	28	22500	605	26.89	**27.41**
	002	"	"	"	"	620	27.56	
	003	"	"	"	"	625	27.78	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-01/2018-19/YP2-SB2 **Date: 26-04-2018**

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	**Solid**	80000	325	4.06	**4.15**
2	,,	,,	80000	340	4.25	
3	,,	,,	80000	330	4.13	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

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